

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 05179437
PUBLICATION DATE : 20-07-93

APPLICATION DATE : 12-07-91
APPLICATION NUMBER : 03197444

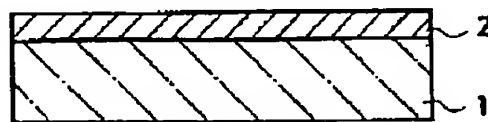
APPLICANT : CITIZEN WATCH CO LTD;

INVENTOR : KOMINE SHINICHI;

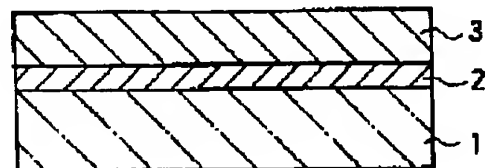
INT.CL. : C23C 14/34 C22C 27/02 C23C 14/06
C23C 28/02

TITLE : FORMATION OF TANTALUM FILM

(a)



(b)



ABSTRACT : PURPOSE: To reduce the specific resistance of a tantalum film used for the circuit and electrodes of a liq. crystal display panel of active matrix system and to increase the area of the panel.

CONSTITUTION: One or more among gaseous N₂, CO₂, methane and O₂ are added to rare gas, tantalum is sputtered with the resulting gas to form a first tantalum layer 2 on a substrate 1 and then tantalum is sputtered with only rare gas to form a second tantalum layer 3.

COPYRIGHT: (C)1993,JPO&Japio